

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A spark plug comprising:
a tubular housing;
a central electrode supported by said tubular housing in said tubular housing with electrical insulation therebetween;
an earth electrode extending from one end of said tubular housing;
a chip, arranged at an end surface of said earth electrode to face said central electrode, for providing a spark gap between said central electrode and said chip, said chip including a ~~novel~~ noble metal; and
a fused junction layer between said earth electrode and said chip including components of said chip and said earth electrode to fix said chip to said earth electrode, wherein a cross-sectional area of said chip at a tip thereof on the opposite side of said fused junction layer is not less than 0.12 mm^2 and not more than 1.15 mm^2 , and a length from said end surface to a top surface of said tip is not less than 0.3 mm and not more than 1.5 mm, and wherein said fused junction layer has a curved outer surface continuously connecting a peripheral outer surface of said chip to said end surface of said earth electrode, said curved outer surface being concave toward an axis of said chip, said curved outer surface being tapered toward said chip.
2. (previously presented) The spark plug as claimed in claim 10, wherein if it is assumed that a maximum width of said chip on a sectional plane along said axis is D, $D / 4 \leq R \leq 3 D / 4$.
3. (original) The spark plug as claimed in claim 1, wherein said chip mainly includes Ir and further includes at least one of Rh, Pt, Ni, W, Pd, Ru, and Os.

4. (original) The spark plug as claimed in claim 3, wherein said chip mainly includes Ir and further includes at least one of Rh of lower than or equal to 50% by weight, Pt of lower than or equal to 50% by weight, Ni of lower than or equal to 40% by weight, W of lower than or equal to 30% by weight, Pd of lower than or equal to 40% by weight, Ru of lower than or equal to 30% by weight, and Os of lower than or equal to 20% by weight.

5. (original) The spark plug as claimed in claim 1, wherein said chip mainly includes Pt and further includes at least one of Ir, Ni, Rh, W, Pd, Ru, and Os.

6. (original) The spark plug as claimed in claim 5, wherein said chip mainly includes Pt and further includes at least one of Ir of lower than or equal to 50% by weight, Ni of lower than or equal to 40% by weight, Rh of lower than or equal to 50% by weight, W of lower than or equal to 30% by weight, Pd of lower than or equal to 40% by weight, Ru of lower than or equal to 30% by weight, and Os of lower than or equal to 20% by weight.

7. (original) The spark plug as claimed in claim 3, wherein said fused junction layer includes said component of said chip of not less than 35% by weight and not more than 80% by weight.

8. (original) The spark plug as claimed in claim 5, wherein said fused junction layer includes said component of said chip of not less than 35% by weight and not more than 80% by weight.

Claim 9. (canceled).

10. (previously presented) The spark plug as claimed in claim 1, wherein said curved outer surface has a radius of curvature R in a sectional plane including said axis of said chip.